

8 Ch.TC input module / RS485 Modbus

Z-PC LINE

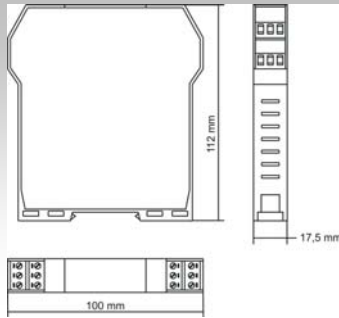
Analogue I/O modules



- ▶ INPUT: N.8 channels configurable as TC (J,K,E,N,S,R,B,T) or mV (-10,1..81,4mV)
- ▶ INTERFACE: RS485 serial communication with Modbus–RTU protocol,
- ▶ Each input is configured independently from the others
- ▶ Easy Dip-switch settings for address and baud rate
- ▶ ACCURACY: 0,05%
- ▶ Galvanic isolation @ 6-way
- ▶ Screw-fit terminals removable
- ▶ Din rail mounting
- ▶ Power supply: 10..40 Vdc, 19..28 Vac

TECHNICAL SPECIFICATIONS

Z-8TC_ 8 Ch. TC input module / RS485 Modbus



ELECTRICAL

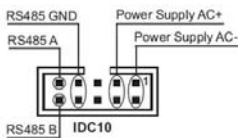
Power supply	10÷40Vdc, 19÷28 Vac
Max consumption	0,6 W
Isolation	6-way @ 1.500 Vac
Input protection	According norms in force
Supply protection	400 W/ms
Status indicators	Power Supply Error Data sending Data receiving
Installation class	II
Pollution rating	2
Protection rating	IP20

THERMOMECHANICS

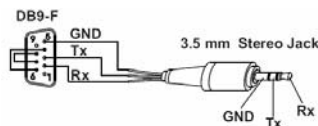
Operating temperature	-10..+65 °C
Storage temperature	-20..+85°C
Humidity	30..90% at +40°C (non condensing)
Dimensions	17,5 x 100 x 112 mm
Weight	140 g
Case	V0 self-extinguish fiber glass filled
Hot swapping	Yes
Connection	Plug-in screw clamp terminal blocks, wires up to 1,5 mm ² IDC10 backplane connector for DIN guide RS232 (COM) communication front jack
Mounting	35 mm DIN 46277

SERIAL CONNECTIONS

POWER SUPPLY AND RS485 SERIAL PORT



RS232 SERIAL PORT (DB9-stereo jack 3,5 mm connection cable)



ORDER CODES

Code	Description
Model	Z-8TC 8 TC input module / Rs485 ModBUS
Software	Z-PROG, Z-NET Configuration sw downloading from www.seneca.it
Bus accessories	Z-PC DINAL (Terminal block for power & RS485 communication) Z-PC DIN2 Z-PC DIN4 Z-PC DIN8 (2, 4, 8 slot block)
Cable	PM001600 cable for programming
K-LINE modules	K107A (RS485 repeater), K107B (RS232-RS485 converter), K107USB (USB-RS485 din rail mounting), S107USB (portable)

COMMUNICATION, PROCESSING, MEMORY

RS485 interface	2 wires, speed rate: 1.200..115 kbaud
RS232 interface	Jack port, baud rate 2.400, data 8 bit, no parity, 1 bit stop
Protocol	ModBUS RTU Slave
Disturbance rejection	Settable form 50 to 60 Hz
Max distance	1.200 m
Connectivity	Max 32 nodes
Data store	EEPROM, 40 years

SIGNALS, MEASURE, CONFIGURATION, NORMS

Input channels	8
Input type	4 clamp -Thermocouple types: J, K, E, N, S, R, B, T EN60584-1 (ITS-90). - mV: from -10,1..81,4mV
Thermal drift	< 100 ppm/K
Cold junction error	< 1°C
ADC resolution	14 or 15 bit
Impedance	10 MOhm
Temperature range	Dependent on Thermocouple type
Software configuration	Serial (RS232/485) or ethernet (Z-NET) paramaters setup
Other functions	Yes
DIP switch	Communication parameters
Norms	EN 61000-6-4/2002, EN 61000-6-2002, EN 61010, EN 60742

ELECTRICAL CONNECTIONS

INPUTS (6 way galvanic isolation)

